

Application No.: 09/715,131

Docket No.: 30004773-1 US (1509-135)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-30. (Cancelled)

31. (Currently amended) Apparatus for transferring data from a network to a mobile device comprising:

a transmitter arrangement having differing narrow and wide ~~bandwidths~~ bandwidth links for transmitting data from the network to the mobile device, the transmitter arrangement being arranged for notifying, via the narrow bandwidth link, the mobile device of data awaiting transfer thereto from the network, the transmitter arrangement being arranged for transferring the data to the mobile device via the wide bandwidth link and the narrow bandwidth, the wide bandwidth link having a shorter range than the range of the narrow bandwidth link; and

~~a scheduling an~~ arrangement for ~~scheduling transfer of~~ transferring the data from the network to the mobile device and for causing transfer of the data, via the wide bandwidth link, to the mobile device ~~based on unless the schedule mobile device is outside of the range of wide bandwidth link, in which case the data are selectively immediately transferred to the mobile device via the narrow bandwidth or are subsequently transferred to the mobile device via the wide bandwidth link when the mobile device is in range of the wide bandwidth link.~~

32. (Cancelled)

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33. (*Currently amended*) A method of data transfer by using first and second communication links of differing bandwidths between a network and a mobile device, the first link having a narrower bandwidth and longer range than the second link, the method comprising:

notifying the mobile device of data awaiting transfer thereto from the network by transmitting a first signal from the network to the device via the first link;

~~then~~ transferring the data from the network to the mobile device by transmitting a second signal from the network to the device via the first link or the second link; and the transfer to the mobile device occurring via the second link immediately after the notifying step only if the mobile device is in the range of the second link, the transfer to the mobile device selectively occurring (a) immediately after the notifying step via the first link if the mobile device is not in the range of the second link or (b) subsequently to the notifying step via the second link when the mobile device is in the range of the second link.

~~scheduling the transfer of the data from the network to the mobile device, the transfer of the data to the mobile device via the second link being based on the schedule.~~

34. (*Cancelled*)

35. (*Currently amended*) The method of claim 33 wherein the scheduling-selective transfer is executed in response to a user input at the mobile device.

36. (*Currently amended*) The method of claim 33 wherein the scheduling-selective transfer is executed by software on the mobile device.

37. (*Currently amended*) The method of claim 33 wherein the scheduling-selective transfer is executed by software present on a base station of the network, and further including transmitting data corresponding to the scheduling-selective transfer to the mobile device via the first link.

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38. *(Previously presented)* The method according to claim 33 wherein the first link includes a public land mobile network.

39. *(Currently amended)* The method according to claim 33 wherein the second link includes a wireless network ~~having a wide band and short range compared to the bandwidth and range of the first~~ link.

40. *(Currently amended)* The method according to claim 33 wherein the second link ~~is~~ includes an unlicensed portion of the electromagnetic spectrum.

41. *(Currently amended)* The method according to claim 40 wherein the first link ~~is~~ includes a licensed portion of the electromagnetic spectrum.

42. *(Currently amended)* The method according to claim 33 wherein the first link ~~is~~ includes a licensed portion of the electromagnetic spectrum.

43. *(Previously presented)* The method according to claim 33 further including only temporarily forming at least one of the first and second links.

44. *(Previously presented)* The method according to claim 33 further including transferring data to the mobile device from a second network via another wide bandwidth link after the mobile device has been notified via a narrow bandwidth link that it is to receive data from the second network.

45. *(Previously presented)* The method according to claim 33 further including the steps of:
transferring a decryption key from the network to the mobile device via the first link; and
then transferring the data in encrypted form, based on the key, from the network to the mobile device via the second communication link.

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46. (*Previously presented*) The method according to claim 33 further including the step of determining the location of at least one of the mobile device and a base station of the second communication link by using GPS.

47.-52. (*Cancelled*)

53. (*Currently amended*) A data transfer system comprising:

a network, a mobile device, a first transmitter and a second transmitter, the network being adapted to contain data, the mobile device being adapted to receive signals from both the first and second transmitters, the first transmitter being adapted to transmit a first narrow bandwidth long-range signal to the mobile device via a first narrow bandwidth long-range channel, the first signal indicating data on the network are available to be transferred to the mobile device, the second transmitter being adapted to transmit to the mobile device via a second wide bandwidth short-range channel, a second wide bandwidth short-range signal including the data, the mobile device and the first transmitter being arranged for selectively causing the first transmitter to transmit the data via the first channel and enabling the mobile device to selectively receive the data via the first and second channels; the network being adapted to respond to a transmission resulting from an input by a user of the mobile device that the user wants to receive the data by transmitting the data to the second transmitter.

54. (*Previously presented*) A system according to claim 53, wherein the first transmitter is arranged to operate at a frequency within the range selected from group (i) about 900 MHz to about 1900 MHz; (ii) about the 2 GHz band.

55. (*Previously presented*) A system according to claim 53, wherein the second transmitter is arranged to operate at a frequency within the range of the order of 1 GHz to the order of a few tens of GHz.

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56. *(Previously presented)* A system according to claim 53, wherein the second transmitter includes a wireless LAN base station.

57.-58. *(Cancelled)*

59. *(Previously presented)* A system according to claim 53, wherein a plurality of the second transmitters are located at geographically different places.

60. *(Previously presented)* A system according to claim 53, wherein the mobile device includes a GPS transceiver associated with it.

61. *(Previously presented)* A system according to claim 53, wherein the second transmitter is arranged to transmit the position thereof via the second channel.

62. *(Cancelled)*

63. *(Currently amended)* A method of transferring data between a mobile device arrangement and a network arrangement via first and second communications links between the device arrangement and network arrangement, the first and second links respectively having narrow and wide bandwidths and long and short ranges, the method comprising:

sending a first narrow bandwidth signal from a first of the arrangements to the second of the arrangements via the first link, the first signal indicating that the first arrangement is ready to transmit data to the second arrangement, then sending a second wide bandwidth signal from the first arrangement to the second arrangement via the second link, the second signal including the data; and

scheduling the sending of the data from the first arrangement to the second arrangement via one of the first and second links, and transferring the data from the first arrangement to the second arrangement via one of the first and second links based on the schedule.

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64.-66. *(Cancelled)*

67. *(Previously presented)* A converter device for use with a mobile telecommunications device and being adapted for use with a network, the converter device having an interface adapted to interface with (a) said mobile telecommunications device and (b) a wide bandwidth communication link such that the converter device is capable of causing the mobile telecommunications device to perform the method of claim 33.

68. *(Cancelled)*

69. *(Previously presented)* The method according to claim 39 wherein the first link includes a public land mobile network.

70.- 78. *(Cancelled)*

79. *(New)* The apparatus according to claim 31 wherein the narrow bandwidth link is adapted to transmit data indicative of the time it will take to transmit the data.

80. *(New)* The apparatus according to claim 79 wherein the narrow bandwidth link is adapted to transmit data indicative of the cost to transmit the data via the narrow bandwidth link.

81. *(New)* The apparatus according to claim 31 wherein the narrow bandwidth link is adapted to transmit data indicative of the cost to transmit the data via the narrow bandwidth link.

82. *(New)* The method according to claim 33 wherein the narrow bandwidth link transmits data indicative of the time it will take to transmit the data.

83. *(New)* The method according to claim 82 wherein the narrow bandwidth link transmits data indicative of the cost to transmit the data via the narrow bandwidth link.

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84. (*New*) The method according to claim 33 wherein the narrow bandwidth link transmits data indicative of the cost to transmit the data via the narrow bandwidth link.

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